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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/769,122	01/24/2001	Thomas J. Walczak	CS10560	5562	
Motorola, Inc. Intellectual Property Dept. (RKB)			EXAMINER		
			BHATTACHARYA, SAM		
600 North US Highway 45, AN475 Libertyville, IL 60048			ART UNIT	PAPER NUMBER	
,			2617		
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	09/769,122	WALCZAK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sam Bhattacharya	2617				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25 September 2006.						
2a) This action is FINAL . 2b) ⊠ This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-33</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6,8-13,15,17-19,21-23,25-27 and 31</u> is/are rejected.						
7) Claim(s) 7,14,16,20,24,28-30,32 and 33 is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No.						
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
* See the attached detailed Office action for a list of the certified copies not received.						
200 the attached detailed office detail for a fiel of the certified copies flot received.						
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4						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-3, 9, 12, 13, 15, 19, 21-23, 25-27 and 31 are rejected under 35 U.S.C. 102(e) as being anticipated by Jones, Jr. (US 2001/0052849).

As to claim 1, the Jones reference discloses a method for validating a non-network based location fix of a mobile station in a communications network, comprising: generating a non-network based location fix of the mobile station; evaluating the validity of the non-network based location fix of the mobile station by comparing the non-network based location fix with a prior network based location fix. See FIGS. 4-6 and paragraph 21, lines 1-16.

As to claim 2, the Jones reference discloses the method of Claim 1, generating the non-network based location fix <u>includes</u> receiving global positioning system signals at the mobile station. See paragraph 24, lines 1-10.

As to claims 3 and 13, the Jones reference discloses the communications network having a plurality of base stations 24, generating the network based location fix by measuring a time related parameter of signals received at the mobile station from several base stations neighboring the mobile station. See paragraph 26, lines 1-12.

As to claim 12, as cited in claim 1, the Jones reference discloses a method for validating a satellite positioning system based location fix of a satellite positioning system enabled cellular mobile station in a cellular communications network, comprising: generating a satellite positioning system based location fix of the mobile station; evaluating the validity of the satellite

positioning system based location fix by comparing the satellite positioning system based location fix to a prior network based location fix. See paragraph 27, lines 1-25.

As to claims 9, 15, and 19, the Jones reference discloses the method of Claims 1 and 12, evaluating the validity of the non-networked (or satellite positioning system) based location fix by comparing it to one network based location fix, generating a plurality of network based location fixes of the mobile station and evaluating the validity of the non-networked (or satellite positioning system) based location fix by comparing it to at least one of the plurality of network based location fixes. See paragraph 26, lines 1-12.

As to claims 21 and 25, Jones discloses a method for validating a location fix of a mobile station ("mobile machine"), including generating a plurality of location fixes of the mobile station, and evaluating the validity of a recently generated location fix of the mobile station by comparing the location fix for which the validity determination is required to a previously generated mobile station location fix. See paragraph 22, lines 1-11.

As to claims 22 and 31, the Jones reference discloses evaluating the validity of the location fix based on a specified range (i.e., the sequence of cells in FIG. 2) of a previously generated location fix. See paragraph 23, lines 1-27.

As to claims 23 and 26, the Jones reference discloses defining the specified range based on estimated velocity of the mobile station and a time variable. See paragraph 23, lines 1-27.

As to claim 27, Jones shows a cellular mobile station, comprising:

a satellite positioning system (GPS) signal reception interface in the mobile station ("mobile machine") for receiving satellite positioning system signals;

a cellular communications network interface in the mobile station for communicating with a cellular communications network;

an information processor coupled to the satellite positioning system signal reception interface and the cellular communications network interface,

the information processor for evaluating the validity of a satellite positioning system based location fix by comparing it to one mobile station location fix and by comparing it to at least one prior mobile station location fix. See FIGS. 4-6 and paragraph 21, lines 1-16.

Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 4-6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of Hill et al. (U.S. Patent 5,857,155).

As to claim 4, the Jones reference discloses the method of Claim 1. However, it does not disclose translating the network based location fix and the non-network based location fix into a common format prior to comparing the network and non-network based location fixes. The Hill reference teaches "a method of controlling the operation of a subscriber device having a GPS receiver within a messaging system having a plurality of transmitters having known coordinates comprises the steps of acquiring GPS information from the GPS receiver and accessing a memory location having known transmitter coordinates and comparing the known transmitter coordinates with the GPS information" (Col. 1, lines 58-65).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the method of Jones to translate the network based location fix and the non-network based location fix into a common format prior to comparing the network and non-network based location fixes, as taught by Hill, in order to control the operation of a subscriber device with adjustment to the power from the transmitter module.

As to claim 5, the Jones reference discloses the method of Claim 1. However, it does not disclose generating the non-network based location fix of the mobile station in longitude and latitude coordinates, converting the network based location fix to longitude and latitude coordinates before comparing the network based location fix with the non-network based location fix. The Hill reference teaches "Figure 5, the method 200 comprises at step 202 of acquiring GPS information at a selective call receiver from the GPS receiver comprising information selected from the group of latitude, longitude, and velocity" (Col. 5, lines 41-45). "At step 200 a look-up table of the known transmitter coordinates is accessed and compared with the known transmitter coordinates with the GPS information" (Col. 5, lines 49-52).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the method of Jones to generate the non-network based location fix of the mobile station in longitude and latitude coordinates, converting the network based location fix to longitude and latitude coordinates before comparing the network based location fix with the non-network based location fix, as taught by Hill, in order to control the operation of a two-way selective call subscriber device.

As to claim 6, the Jones reference discloses the method of Claim 1. However, it does not disclose evaluating the validity of the non-network based location fix by determining whether the

non-network based location fix is within a specified range of the network based location fix. The Hill reference teaches "the known GPS position of the subscriber could be used to determine the range to the nearest local base receiver. The location of the nearest base receivers would be stored in a code plug table preferably in the form of a base receiver location map 54. The minimum distance to a receiving base station would easily be calculated from the GPS information" (Col. 3, lines 46-52).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the method of Jones to evaluate the validity of the non-network based location fix by determining whether the non-network based location fix is within a specified range of the network based location fix, as taught by Hill, in order to adjust the transmit output level in a subscriber device.

As to claim 8, as cited in claim 1, the Jones reference discloses the method of Claim 1, the communications network having a plurality of base stations, generating the network based location fix by measuring at the mobile station several base station signals neighboring the mobile station. However, it does not disclose evaluating the validity of the non-network based location fist by determining whether the non-network based location fix is within a specified range of the network based mobile station location fix. As cited in claim 6, the Hill reference teaches evaluating the validity of the non-network based location fist by determining whether the non-network based location fix is within a specified range of the network based mobile station location fix.

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the method of Jones to evaluate the validity of the non-

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network based location fix by determining whether the non-network based location fix is within a specified range of the network based location fix, as taught by Hill, in order to adjust the transmit output level in a subscriber device.

5. Claims 10 and 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of Bala et al. (U.S. 6,539,230).

As to claims 10 and 17, Jones discloses the method of Claims 9 and 12. However, it does not disclose evaluating the validity of the non-network (or satellite positioning system) based location fix by determining whether the non-network (or satellite positioning system) based location fix is closer to a less recently generated network based location fix than it is to a more recently generated network based location fix. The Yen reference teaches evaluating the validity of the non-network (or satellite positioning system) based location fix by determining whether the non-network (or satellite positioning system) based location fix is closer to a less recently generated network based location fix than it is to a more recently generated network based location fix ("the location information may be supplied, for example, by a global positioning satellite (GPS) receiver in the wireless terminal, or by other location measurement techniques (e.g., triangulation based on signal strengths, dead reckoning)" (Col. 2, lines 39-43). "In step 208, the wireless terminal will determine that the second entry of the location/parameter table, having location (x_1, y_1) , is the closest to the current location of (x_4, y_4) . Assuming that the test in step 210 indicates that the distance between (x_1,y_1) and (x_4,y_4) is less than L, control will pass to step 216, at which point the entry containing (x_1,y_1) and DCCH1 is placed in the first location of

the location/parameter table and the other entries are shifted down" (Col. 7, lines 39-46). See Col. 6, line 48 to Col. 7, line 55).

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the method of Jones to evaluate the validity of the non-network based location fix by determining whether the non-network based location fix is closer to a less recently generated network based location fix than it is to a more recently generated network based location fix, as taught by Yen, in order to update and store current location and location-dependent operating parameter for a mobile station.

6. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of Bala et al. (U.S. Patent Application Publication 2002/0068580 A1).

As to claim 11, the Jones reference discloses the method of Claim 1. However, it does not disclose generating a plurality of network based location fixes of the mobile station, estimating a future location fix of the mobile station based on the plurality of the network based location fixes, evaluating the validity of the non-networked based location fix by determining whether the non-network based location fix is within a specified range of the estimated location fix. As cited in claim 9, The Bala reference teaches generating a plurality of network based location fixes of the mobile station ("movement information for a subscriber can include past locations for a subscriber, e.g., the identity of and number of times transmitters have successfully polled the subscriber, or future expected movement activity" (page 1, col. 1, paragraph [0006], lines 8-12)) and estimating a future location of the mobile station based on the plurality of the network based

location fixes ("the movement information for the subscriber is analyzed to determine the likely current location of the subscriber" (page 2, col. 1, paragraph [0019], lines 2-4)).

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Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the method of Jones to generate a plurality of network based location fixes of the mobile station and estimate a future location fix of the mobile station based on the plurality of the network based location fixes, as taught by Bala, in order to determine the probable current location of the mobile station.

7. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Jones in view of Hill et al. (U.S. Patent 5,857,155).

As to claim 18, Jones discloses the method of Claim 17, estimating a future location of the mobile station by extrapolating along an estimated path of the mobile station. However, Jones does not disclose evaluating the validity of the satellite positioning system based location fix by determining whether the satellite positioning system based location fix is within a specified range of the estimated location fix.

The Hill reference teaches evaluating the validity of the satellite positioning system based location fix by determining whether the satellite positioning system based location fix is within a specified range of the estimated location fix ("the known GPS position of the subscriber could be used to determine the range to the nearest local base receiver. The location of the nearest base receivers would be stored in a code plug table preferably in the form of a base receiver location map 54. The minimum distance to a receiving base station would easily be calculated from the GPS information" (Col. 3, lines 46-52)).

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Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the method of Jones to evaluate the validity of the satellite positioning system based location fix by determining whether the satellite positioning system based location fix is within a specified range of the estimated location fix, as taught by Hill, in order to determine an expected area within which a mobile station is located.

Allowable Subject Matter

- 8. Claims 7, 14, 16, 20, 24, 28-30, 32 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. The following is a statement of reasons for the indication of allowable subject matter: the claims are objected to for the reasons state in the previous Office action.

Response to Arguments

10. Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Bhattacharya whose telephone number is (571) 272-7917. The examiner can normally be reached on Weekdays, 9-6, with first Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

sb

SUPERVISORY PATENT EXAMINER